

IN THE CLAIMS:



Please AMEND claims 1, 3, 17, 19-22, 24, and 26-31 as shown below.

1. (Currently Amended) A capacitive acceleration sensor, comprising:
~~at least one a pair of electrodes such, that the at least one pair of electrodes~~
~~comprises comprising~~
a movable electrode, ~~which that~~ is responsive to the acceleration, and
at least one stationary plate portion, and
~~wherein the at least one pair of electrodes further comprises an axis of~~
~~rotation forming an axis such, that,~~
~~—wherein the~~ movable electrode ~~of the acceleration sensor is rigidly~~
~~supported at the axis of rotation such, that the movable electrode and~~ is free to turn
~~in a rotational motion rotate~~ about the axis of rotation,
~~—wherein the position of the at least one pair of electrodes is is selected~~
~~symmetrically arranged symmetrically in relation to an axis or axes of symmetry,~~
and that
said capacitive acceleration sensor further comprising ~~the at least one pair of~~
~~electrodes comprises more than at least three additional pairs of electrodes,~~

wherein the at least three additional pairs of electrodes are of similar structure to the pair of electrodes, ~~used in the acceleration sensor, the acceleration sensor being~~

wherein the at least three additional pairs of electrodes and the pair of electrodes are configured to together provide a multi-axis acceleration ~~sensors~~ sensing using capacitive principles, and

wherein ~~the~~ negative direction vectors of at least four movable electrodes ~~of the more than three pairs of electrodes~~ intersect at essentially one point.

2 (Cancelled)

3. (Currently Amended) The capacitive acceleration sensor of Claim 1, wherein a shapes of the ~~more than one pair~~ of electrodes comprises at least one of triangle-like, drop-like, and hammer-like pairs of electrodes.

4-16 (Cancelled)

17. (Currently Amended) The capacitive acceleration sensor of Claim 1, wherein only four pairs of electrodes are used in the acceleration sensor.

18. (Cancelled)

19. (Currently Amended) The capacitive acceleration sensor of Claim 17, wherein the sensor is configured to sense acceleration in a two axes acceleration sensor ~~is implemented by using four pairs of electrodes.~~

20. (Currently Amended) The capacitive acceleration sensor of Claim 17, wherein the sensor is configured to sense acceleration in a three axes acceleration sensor ~~is implemented by using four pairs of electrodes.~~

21. (Currently Amended) The capacitive acceleration sensor of Claim 17, wherein the only four pairs of electrodes are positioned ~~such, that~~ to form four different axes of symmetry ~~are formed.~~

22. (Currently Amended) The capacitive acceleration sensor of Claim 17, wherein the only four pairs of electrodes are ~~positioned in the sensor configured~~ such, that the a positive direction vector of each the movable electrode of each pair of the only four pairs of electrodes is at an angle of 90°, 180°, and 270° in relation to ~~the a positive~~ direction vector of the other three movable electrodes.

23. (Cancelled)

24. (Currently Amended) The capacitive acceleration sensor of Claim 1, wherein only eight pairs of electrodes are used in the acceleration sensor.

25 (Cancelled)

26. (Currently Amended) The capacitive acceleration sensor of Claim 24, wherein the sensor is configured to sense acceleration in a two axes acceleration sensor is implemented by using eight pairs of electrodes.

27. (Currently Amended) The capacitive acceleration sensor of Claim 24, wherein the sensor is configured to sense acceleration in a three axes acceleration sensor is implemented by using eight pairs of electrodes.

28. (Currently Amended) The capacitive acceleration sensor of Claim 24, wherein the eight pairs of electrodes are positioned ~~such, that~~ to form four different axes of symmetry ~~are formed.~~

29. (Currently Amended) The capacitive acceleration sensor of Claim 1, wherein ~~the different pairs of electrodes~~ of the pair of electrodes and the at least three additional pairs of electrodes are adapted configured to measuring measure at different ranges of acceleration.

30. (Currently Amended) The capacitive acceleration sensor of Claim 1, wherein some ~~of the~~ pairs of electrodes of the pair of electrodes and the at least three additional pairs of electrodes of the acceleration sensor are redundant ~~pairs of electrodes~~.

31. (Currently Amended) The capacitive acceleration sensor of Claim 1, ~~wherein a number of the~~ a total number of pairs of electrodes and ~~their respective~~ orientations thereof ~~of the acceleration sensor~~ are selected such that an change in capacitance output of the acceleration sensor is linearised ~~with respect to a change in capacitance~~.